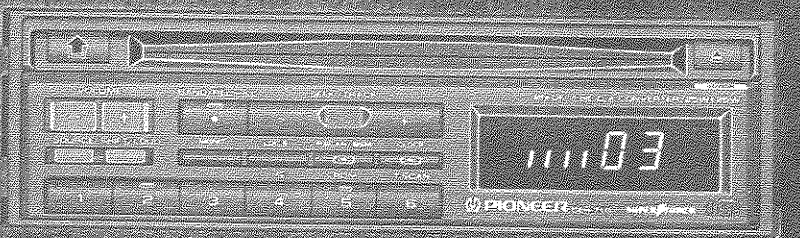
HIGH-POWER COMPACT DISC PLAYER
WITH FM/AM TUNER

SUPER TUNER

OWNER'S MANUAL



PIONEER®

The Art of Entertainment

DEH-Z710
DEH-610

Features

CAUTION: USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- There is a screw on the top of the unit to protect the unit during transportation. Remove the screw before installing the unit and fix the seal supplied over the screw hole. Keep the screw because it must be used if you transport the unit later. (Fig. 1)

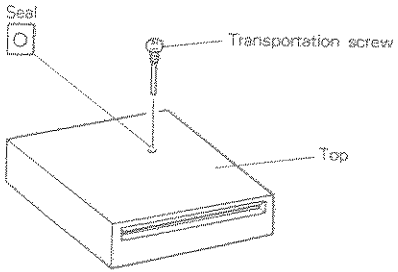
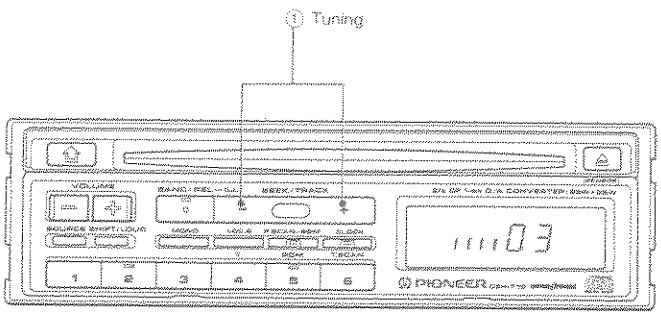


Fig. 1

- An 8-time-oversampling digital filter and 1-bit digital-to-analog converter allow CD's to be played with exceptional fidelity.
- Plays 8-cm and 12-cm CDs. No adapter needed for 8-cm discs.
- Various selection functions (track number search, highlight scan, fast forward and reverse).
- Built-in highly sensitive "Super Tuner" for automatic control of stereo separation, muting, and frequency characteristics to match the strength of the FM signal.
- The Best Stations Memory automatically memorizes the six best (strongest) stations in the six preset buttons in the order of their strength.
- Removable front panel protects against theft.
  (This feature is provided for the DEH-710.)
- Wireless remote controller included as an accessory to keep often used controls at your fingertips.
  (This feature is provided for the DEH-710.)
- 25 W + 25 W maximum output for sound with power to spare.

Changing the Tuning Steps



DEH-710

Changing the Tuning Steps

The tuning steps of the AM band for this unit can be switched between 9 kHz and 10 kHz per step. The tuning step should be switched from 9kHz (which is preset at the factory) to 10 kHz when this unit is used in North America, Central America, or South America.

1. Turn the ignition switch off.
2. While pressing both the (+) and the (−) sides of button ①, turn the ignition switch on. It should be noted that changing the tuning steps also deletes frequencies stored in the tuning memories.

Specification		Initial setting	New setting
AM	Tuning steps	9 kHz steps	10 kHz steps
	Frequency range	531 – 1,602 kHz	530 – 1,710 kHz

Using the Removable Front Panel

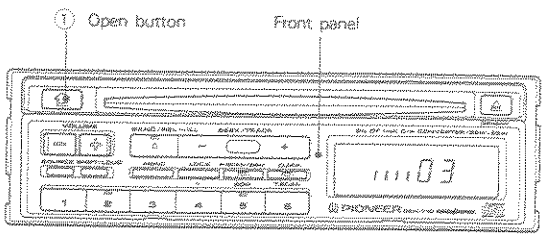
Note:
This function is only available on DEH-710.
DEH-610 does not operate the following function.

The front panel of this unit can be removed to prevent theft.

* If the car's ignition switch is turned "OFF" with the front panel remaining on the main body, the buzzer will be heard for a few seconds in order to warn you that the panel must be removed for the purpose of preventing theft when leaving the car.

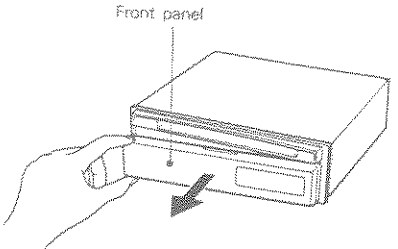
Detaching the Front Panel

1. Press button ①, and the left-hand side of the front panel will eject toward you.



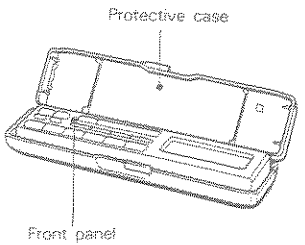
DEH-710

2. To remove the front panel, pull its left-hand side toward you.



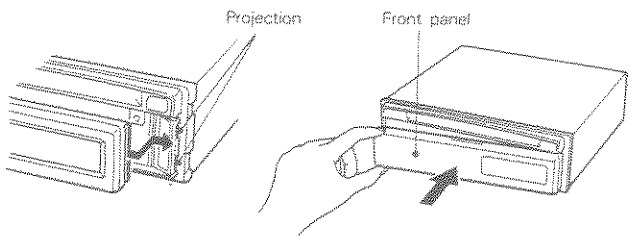
* Take care not to put pressure on the display or drop the front panel.

3. Enclose for safekeeping the front panel that is removed in the supplied protective case.



Replacing the Front Panel

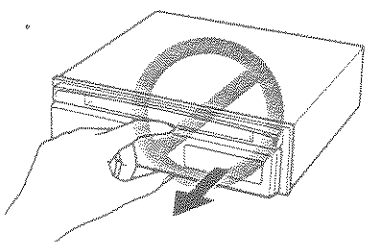
1. With a hollow in the right-hand end of the front panel aligned to projections on the right-hand front wall of the equipment, press the panel's left-hand side against the equipment to put it into place.



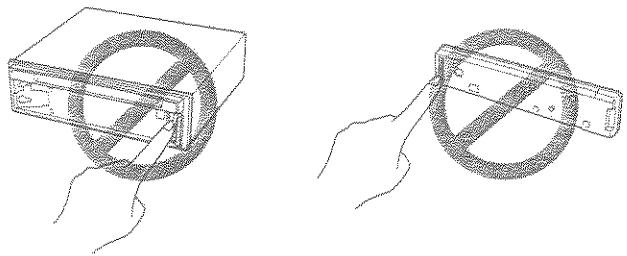
* When replacing the front panel, do not put pressure on the display or control buttons.

Precautions

* Do not force the front panel to remove it.



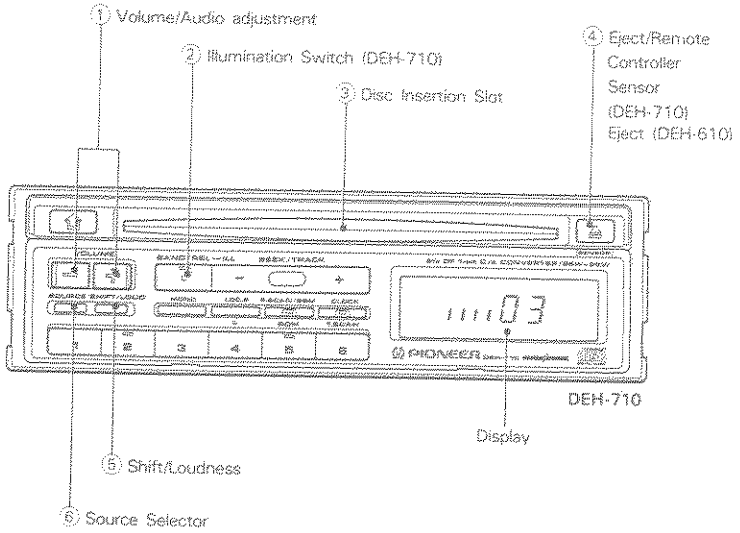
* Do not touch the contacts on the front panel or on the unit body, since this may result in poor electrical contact. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth.



Precautions When Handling the Front Panel

* Do not leave the front panel in any area exposed to high temperatures or direct sunlight.
* Do not drop the front panel or otherwise subject it to strong impact.
* Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the front panel.
* Never try to disassemble the front panel.

Adjusting Volume and Tone



Switching Power On

Tuner

Press button ⑥ to switch the tuner power on. Press button ⑥ again to switch the power off.

CD Player

When a disc is inserted half-way into the disc insertion slot ③ with its label side upward, the disc is automatically loaded and played.
To remove the disc, push button ④.

Changing the source

To change the source, push button ⑥ with the disc inserted in the slot. At each press of the button, the source changes as follows: CD Player–Tuner–OFF
Note that if you press button ⑥ to halt playing, the disc resumes playing with about the remainder when set to start again.

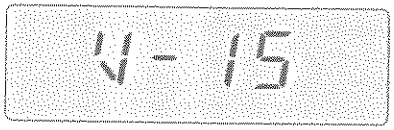
Adjusting Audio

When the display indicates disc or tuner, press button ① to adjust the volume. Each press of button ⑤ changes the display and the function of button ① as follows:

Volume→Fader→Bass→Treble→Balance

Adjusting Volume

Pressing the (+) side of button ① increases the volume, while the (−) side decreases it.

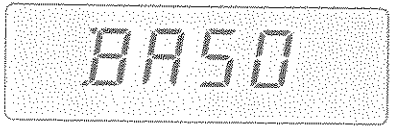


Adjusting the Fader

This function controls the balance between the front and rear speakers of a 4-speaker system. Pressing the (+) side of button ① shifts the balance to the front speakers, while the (−) side shifts it to the rear speakers. For 2-speaker systems, set FAD 0.

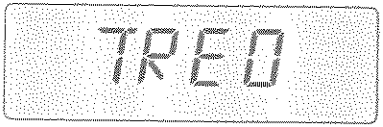
Adjusting Bass

Pressing the (+) side of button ① increases bass, while the (−) side decreases bass.



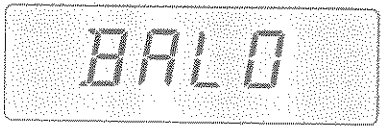
Adjusting Treble

Pressing the (+) side of button ① increases treble, while the (−) side decreases treble.



Adjusting Balance

Pressing the (−) side of button ① shifts the balance to the left speaker, while the (+) side shifts it to the right speaker.



- When you're adjusting fader, bass, treble, or balance settings, the indicator will stop at the center setting. About 5 seconds after adjustment has been made, the display returns to its previous state.

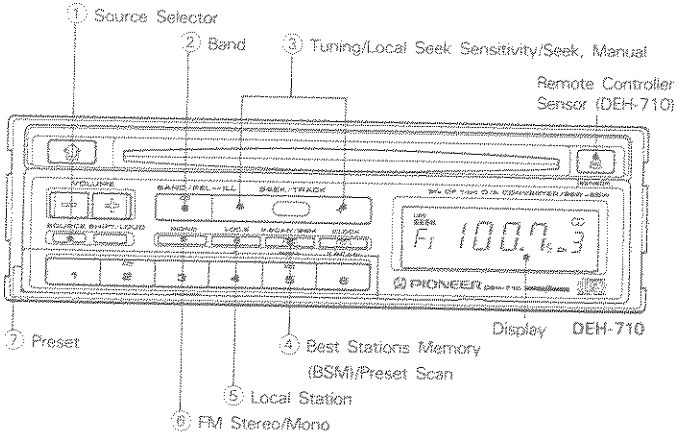
Using the Loudness Function

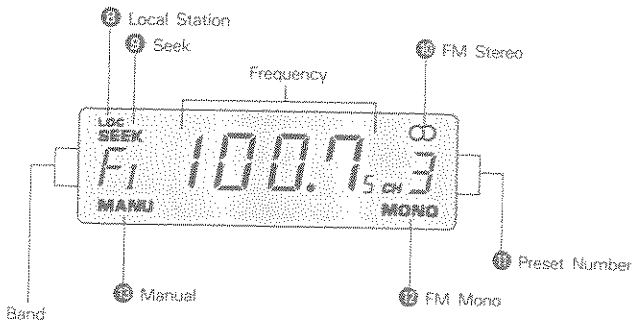
Press button ⑤ for about two seconds and the "**LOUD**" indication will appear on the display. This loudness function lets you enhance both high and low frequencies to give a more natural sound at low volumes. To cancel this function, press button ⑤ again for about two seconds.

Switching Illumination Colour (DEH-710)

You can select either green or amber for the switch illumination colour. To switch the colour, hold down button ② for two seconds.

Using the Radio





1 **Press Button ① to switch the radio power on.**

2 **Press Button ② to select a band.**

$F_I \rightarrow F_{II} \rightarrow F_{III} \rightarrow M$

(FM1) (FM2) (FM3) (AM)

3 **Use seek tuning to tune in a frequency.**

Confirm that the "SEEK" indicator ⑨ is shown on the display (if not, press the (+) and (−) sides of button ③ at the same time). Press the (+) side of button ③ to automatically tune in the next higher receivable frequency, and the (−) side for a lower frequency.

4 **Adjust volume and tone (see page 6).**

5 **Assign the tuned frequency to one of the Buttons in Bank ⑦ (preset memory).**

Press and hold down one of the buttons in Bank ⑦ for at least two seconds. The frequency is assigned to the selected button when the preset number ⑪ stops flashing on the display. Up to 18 FM stations (6 each for FM1, FM2 and FM3), and six AM stations can be assigned to the preset memory buttons in Bank ⑦.

6 **Once a frequency is assigned to a Button in Bank ⑦, you just need to press that Button to tune it in.**

This also causes the number of the button pressed to appear at Position ⑪ on the display.

Preset Scan Tuning

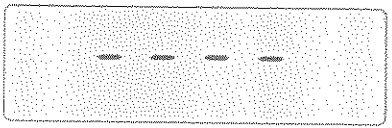
This function lets you automatically monitor the stations assigned to the preset buttons.

1. Press the button ④, and the preset number ⑪ flash.
   Each station assigned to the buttons in Bank ⑦ will be automatically tuned in for about eight seconds.
2. When you hear a station that you like, press button ④ again to cancel preset scan tuning and remain at that station.

BSM (Best Stations Memory)

This function automatically locates stronger stations and automatically assigns their frequencies to the buttons in Bank ⑦, from strongest to weakest. It comes in handy when trying to find local stations while driving.

1. Press button ② and select a band.
2. Hold down button ④. After about two seconds, a "beep" will sound to signal that the BSM search has started. At this time, " - - - - - " will flash on the display.



3. The frequency display will return once BSM search is complete, and frequencies are assigned to buttons 1 through 6 in Bank ⑦.

- At the end of the BSM search, the displayed frequency is that assigned to button [1] of Bank ⑦.
- If there are fewer than six strong stations in the area, some of the buttons in Bank ⑦ will not be assigned frequencies, so they will retain any frequencies assigned to them previously.
- BSM search may take as long as 30 seconds in areas where there are few strong stations.
- You can cancel BSM search by pressing button ④ again.

Manual Tuning

Use manual tuning when stations are too weak to be picked up by seek tuning.

1. Press both (+) and (−) sides of button ③ simultaneously to illuminate "MANU" ⑫.
2. Each press of the (+) side of button ③ increases the frequency in 50 kHz steps in the FM band, 9 kHz in the AM band. Pressing the (−) side of button ③ decreases the frequency. Holding down either side of button ③ changes the frequency at high speed.

- AM frequencies are tuned in 10 kHz steps after the tuning steps are changed.

Switching between FM Stereo and Mono

Generally, it is best to allow the "Super Tuner" function to automatically set the optimum listening conditions. When there is a large amount of noise, you can press button ⑥ for clearer mono reception ("MONO" ⑰ will appear on the display).

Adjusting Seek Sensitivity

The seek tuning function of this tuner lets you select between a local setting for reception of strong stations only, and a DX (distant) setting for reception of weaker stations. The local setting also has four seek tuning sensitivity levels for FM and two levels for AM to match local conditions.

Changing the Local Seek Sensitivity

1. Use button ② to select a band.
2. Hold down the button ⑤ for more than two seconds, and the display will show you the current local seek sensitivity for about five seconds.

(Example: LOC-2)

3. While the local seek sensitivity remains on the display, press the (+) side of button ③ to increase the sensitivity level, and the (−) side to decrease the level as shown below.
   FM : LOC-1⇄LOC-2⇄LOC-3⇄LOC-4
   AM: LOC-1⇄LOC-2
   The LOC-4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

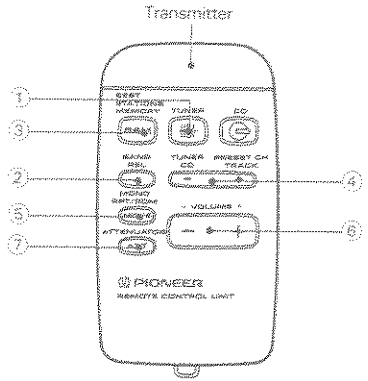
* The display of local seek sensitivity returns to the frequency when about five seconds have elapsed after the change of sensitivity.

Switching between Local and DX

Press button ⑤ to switch between Local and DX (distant) seek tuning. When "LOC" ⑰ is shown on the display, seek tuning is performed with the local seek sensitivity. Otherwise, seek tuning is performed with the DX seek sensitivity.

Tuner Operation Using the Remote Control

Note:
Remote control is only available on DEH-710.
DEH-610 does not have remote control function.

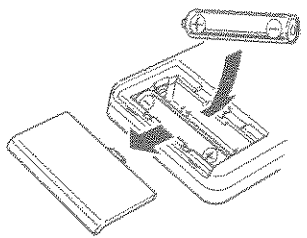


① **Tuner**
The tuner is selected. Pressing again turns off the power.
② **Band**
Band changes.
$F_I \rightarrow F_{II} \rightarrow F_{III} \rightarrow M$
(FM1) (FM2) (FM3) (AM)
③ **Best Stations Memory**
Hold on this button for about two seconds, and you will hear a beep and see Best Stations Memory start.
④ **Preset Channel**
Press to tune the frequencies assigned to the preset button memory. Pressing the (+) side tunes in the next high preset button number, while (−) tunes in the next lower preset button number. The preset number changes at high speed when you hold either side of this button down.
⑤ **FM Stereo/Mono**
Press this button to change between stereo and mono reception.
⑥ **Volume**
Press the (+) side to increase volume and the (−) side to decrease volume.
⑦ **Attenuator**
Press to reduce the volume to 1/10 of its current setting (volume display flashes).
Pressing again returns the volume to its original level.
- This function is available using the remote controller unit only.

Preparing to Use the Remote Controller Unit

Loading Batteries

1. Remove the battery compartment cover from the remote controller unit.
2. Load two batteries, whose type is UM-4, AAA, or R03, as applicable, that come with the unit into the remote controller unit, ensuring that their polarity (+/−) is correct.
3. Replace the battery compartment cover.

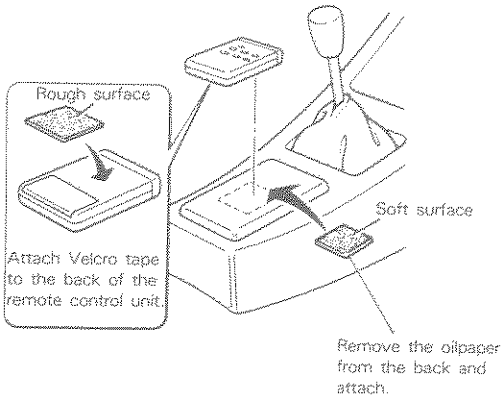


Precautions When Loading Batteries

Note the following precautions when loading batteries into the remote controller unit to avoid damage due to battery fluid leakage.

- Always check carefully that you are loading batteries with their ⊕ and ⊖ poles facing in the proper directions.
- Never mix old and new batteries. Always replace batteries with two new ones.
- Some batteries may appear to be identical but have different voltage ratings. Never mix battery types.
- Some batteries can be recharged and some cannot. Be sure to carefully read the label for the batteries you use.
- To avoid damage to the remote controller caused by battery leakage, remove the batteries from the remote controller if you do not plan to use it for more than one month. If you find that fluid has leaked, thoroughly wipe out the battery compartment and load a set of new batteries.

Installing the Remote Controller Unit


Rough surface
Attach Velcro tape to the back of the remote control unit.
Soft surface
Remove the oilpaper from the back and attach.

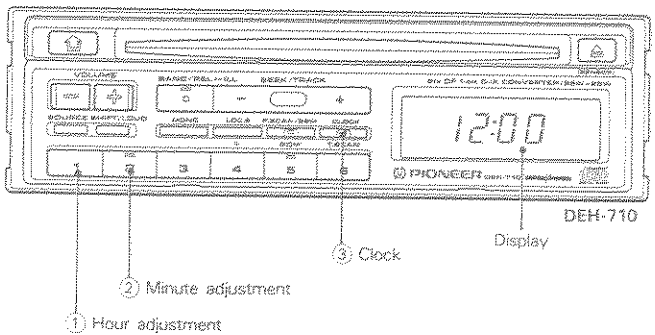
Affix a strip of Velcro tape to the back of the remote control unit. Remove the oil paper on the back and affix into place.

- Thoroughly wipe off the surface before affixing the Velcro tape.

Precautions

- Keep the remote controller unit in an area not exposed to long periods of direct sunlight.
- The remote controller unit may not operate properly if the transmitter of the remote controller unit is pointed towards the floor or the seat of the vehicle.
- Since the transmitter employs and infrared system, it may not operate properly while car stereo unit is exposed to direct sunlight. In such a case, block the sunlight from the sensor and then perform the desired operation.
- If the remote controller fails to operate unless it is brought close to the unit, it may indicate that battery power is low. Replace the batteries in the remote controller.

Using the Clock Display



Displaying the Time

The clock is displayed while button ③ is depressed.
Press button ③ again to turn off the clock display.

- The Time Display functions only when power is on.

Adjusting the Time

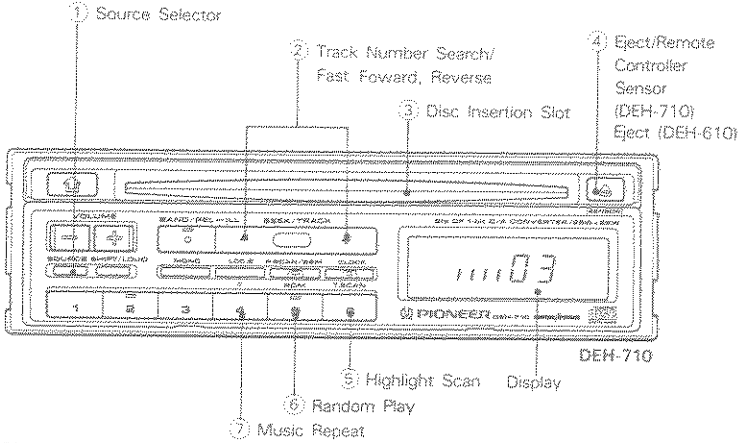
Adjusting the Hours

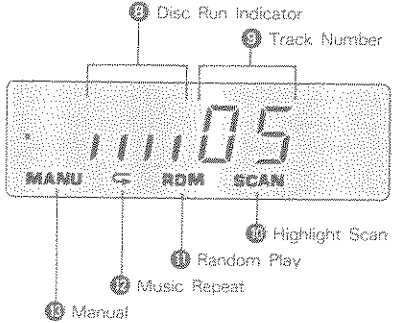
While holding down button ③, press button ① to adjust the hour setting of the clock. Each press of button ① advances the hour setting by one hour, and holding it down advances the setting at high speed.

Adjusting the Minutes

While holding down button ③, press button ② to adjust the minute setting of the clock. Each press of button ② advances the minute setting by one minute, and holding it down advances the setting at high speed.

Playing Compact Discs





1 When a disc is inserted half-way into the disc insertion slot ③ with its label side upward, the disc is automatically loaded and played.

(Track number ⑨ and disc run ⑧ indications will appear on the display.)

2 Use track number search to select a track.

See that no "MANU" ⑬ illuminates on display. If it does, then turn it off by pressing the (+) and (−) sides of Button ② simultaneously. Press the (+) side of button ② to increase the number at position ⑨, or the (−) side to decrease the number. Holding either side of button ② down changes the track number at high speed.

3 Adjust volume and tone (see page 6).

4 To eject or change the disc, press Button ④.

If an ejected disc is pushed back into the slot, it will be loaded and played again.

Note:

- If a disc can only be inserted halfway, or if the disc does not play after being loaded, something may be wrong with the disc. Eject the disc by pressing button ④, and check it. If it is all right, insert it again.
- Insert the disc with its label (printed) side facing up. If the disc is inserted with the label side facing down, it will not play, and the recorded side may be damaged.
- Do not insert two discs into the slot at the same time. This may cause a malfunction.

Using Highlight Scan

Highlight Scan is designed to enable you to conveniently scan all pieces of music contained in the disc by playing 10 seconds each at your designated point of time after the start of the music. The starting time of play is set at one minute in factory. Therefore, the Highlight Scan begins one minute after the start unless you designate it otherwise.

When you do not want to change the factory-set time:

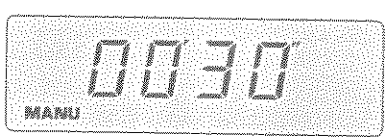
1. Press Button ⑤, and "SCAN" ⑰ will illuminate.
2. The contained pieces of music will be played in sequence for 10 seconds each one minute after the beginning.
3. Press Button ⑤ again when your selected piece comes, and it will continue to play. At this point, the Highlight Scan discontinues to operate.

* The previous function automatically resumes when a piece of music with which Highlight Scan began returns.

Changing the Starting Time of Highlight Scan

When you want to set the starting time of the Highlight Scan to 30 seconds:

1. Press Button ②, (+) and (−) sides simultaneously, and "MANU" ⑱ will illuminate and time numerals will be displayed.
2. Keep pressing either (+) or (−) side of Button ② until the numerals reaches 30.



3. Hold down Button ⑤ for two or more seconds, and "SCAN" ⑰ will illuminate and the Highlight Scan will begin 30 seconds after the start of the next piece of music.

* The starting time of Highlight Scan can be designated at ten or tens of seconds only. A tenth or tenths of seconds can be disregarded.
* If a piece of music ends before your designated point of time at which Highlight Scan starts, the scanning is performed for its beginning 10 seconds.
* If a piece of music lasts less than 10 seconds, so does the Highlight Scan.
* You may wish to change the starting time longer without suspending the function. You may do so, however, only to a relatively long-playing piece of music because, as a matter of course, the time cannot be set so as to come after the end of the music.

Using Random Play

This function uses the built-in microprocessor to randomly play tracks from the disc.

1. Press button ⑥. "RDM" ⑲ will appear on the display. Once the current track has been played, the microprocessor will randomly select the next track.
2. To cancel random play, press button ⑥ again.

Using Music Repeat

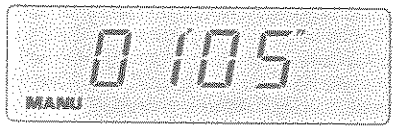
This function lets you listen to a track as many times as you wish.

1. While the track you want to repeat is playing, press button ⑦. "↻" ⑳ will appear on the display. Now the track will repeat until the music repeat function is canceled.
2. To cancel music repeat, press button ⑦ again.

* When music repeat is not operational, the whole disc will be played repeatedly.

Using Fast Forward and Reverse

1. Press simultaneously both (+) and (−) sides of the button ② "**MANU**" ⓱ will appear on the display. At this time the display will show the amount of elapsed disc play time.

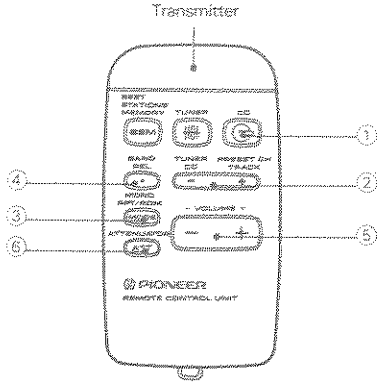


2. Press the (+) side of button ② for fast forward, and the (−) side for reverse.

* Sound is output during fast forward and reverse operations.
* When a disc in which there are several seconds between tracks is used, the amount of elapsed disc-play time is shown, for example, as −0"02 and −0"01.

Playing Disc by Remote Control

Note:
Remote control is only available on DEH-710.
DEH-610 does not have remote control function.



① CD
When a disc is inserted in the built-in CD player, the unit will switch to disc play mode. Pushing the button once again turns the power off.

② Track Number Search
Press to search for a selection (track number) on the current disc. Press the (+) side to increase the track number on the display, and the (−) side to reduce the track number. Holding down either side of this button changes the track number at high speed.

③ Music Repeat/Random Play
Use this button to select music repeat or random play mode. Pressing this button repeatedly cycles the mode through RPT, RDM, and normal.

④ Release
Press this button to cancel music repeat, random play and highlight scan.

⑤ Volume
Press the (+) side to increase volume and the (−) side to decrease volume.

⑥ Attenuator
Press to reduce the volume to 1/10 of its current setting (volume display flashes). Pressing again returns the volume to its original level.

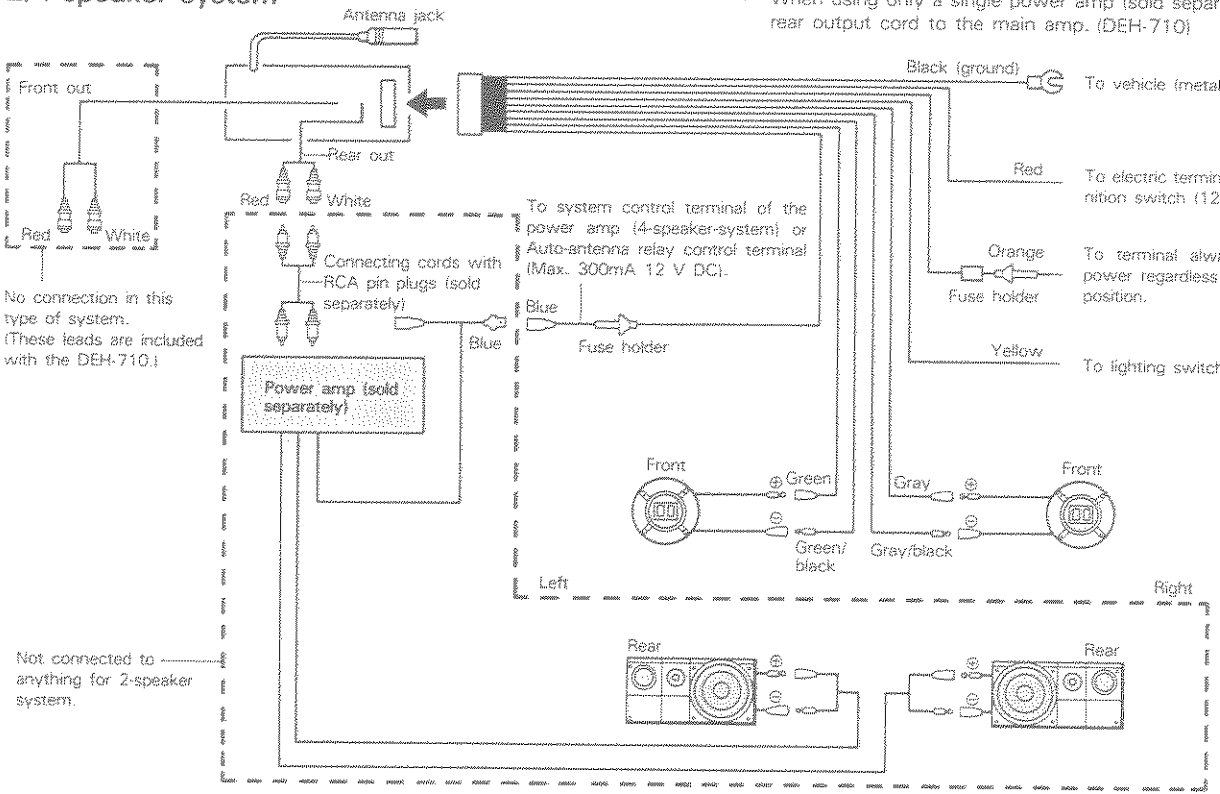
* This function is available using the remote controller unit only.

Connecting the Units

- Before making final connections, make temporary connections then operate the unit to check for any connecting cord problems.
- Refer to the owner's manual for details on connecting the various cords of the power amp and other units, then make connections correctly.
- Be sure to connect the memory power supply lead (orange) to a terminal that is always supplied with power regardless of the vehicle's ignition switch position. If this connection is made incorrectly or is forgotten, the unit will not work at all.
- Don't pass the orange lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right speaker ⊖ leads are common.
- Speakers connected to this unit must be high-power types possessing minimum rating of 25W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.

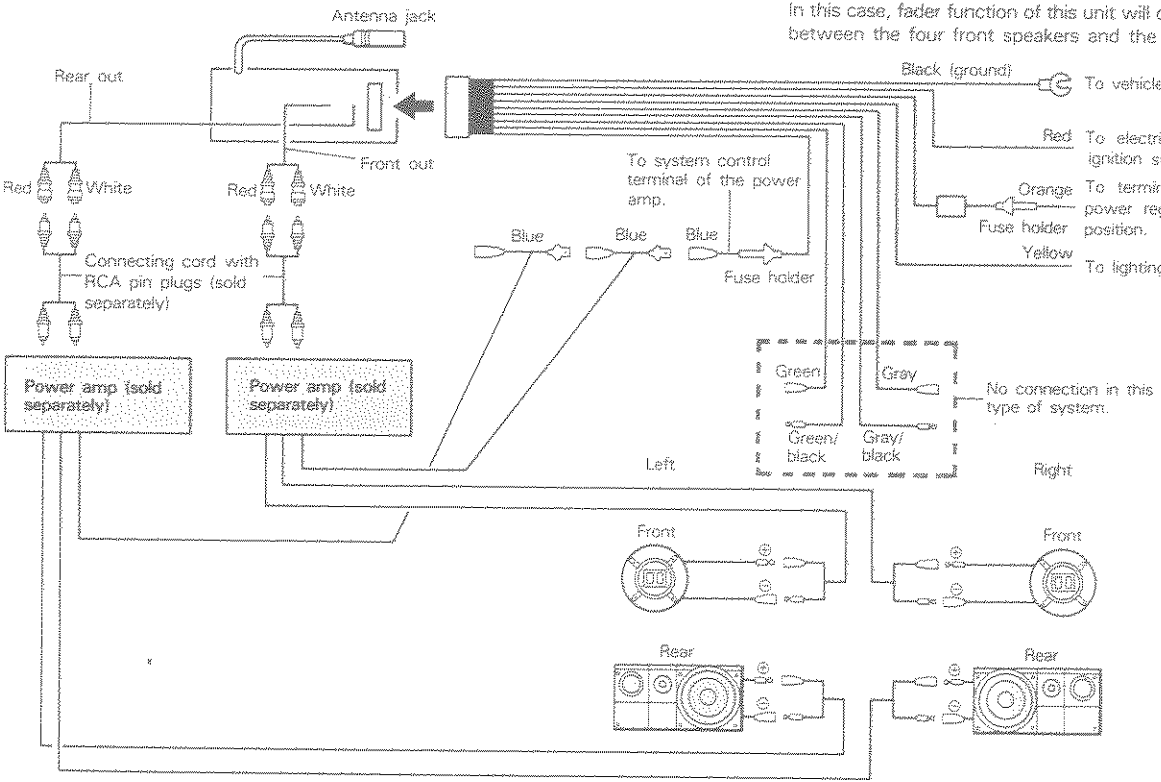
2/4-speaker system

- When using only a single power amp (sold separately), connect the rear output cord to the main amp. (DEH-710)



External 4 channel amp system (DEH-710)

* Optional front speakers can be connected as illustrated with in the "----", to make it a 6-speaker system.
In this case, fader function of this unit will control the volume balance between the four front speakers and the two rear speakers.



Installation

DIN Front/Rear-mount:
This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

Note:

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 1)
- The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot — for instance, near a heater outlet.

Installation with the rubber bush (DIN Front-mount)

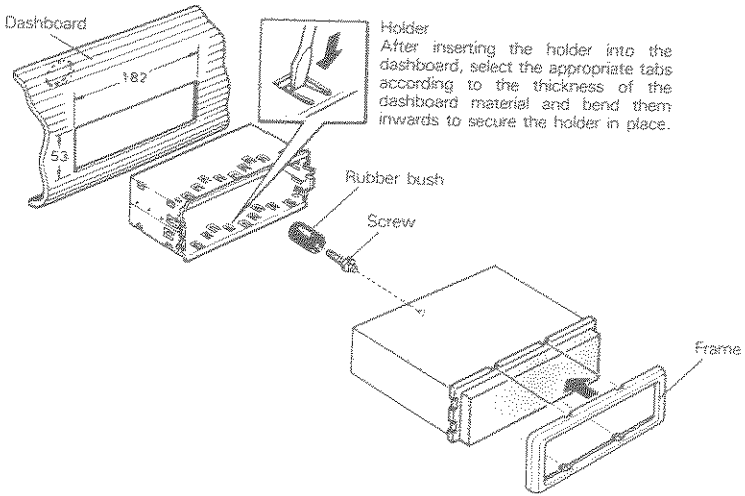
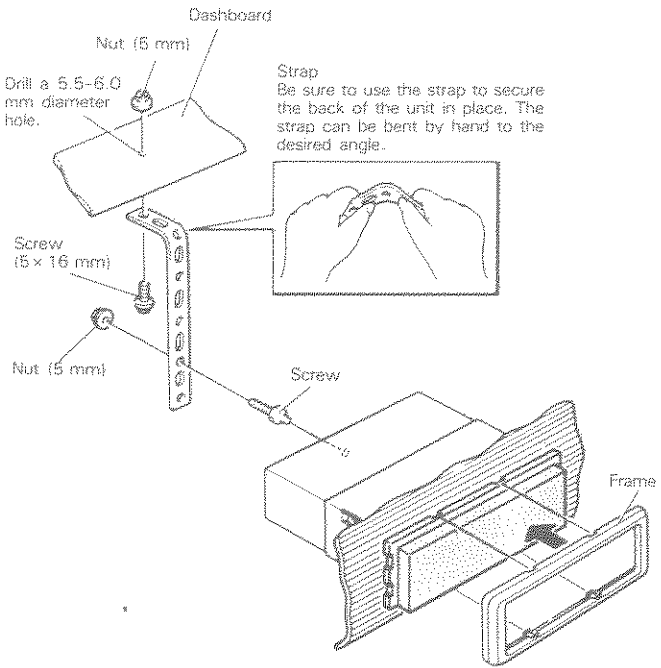
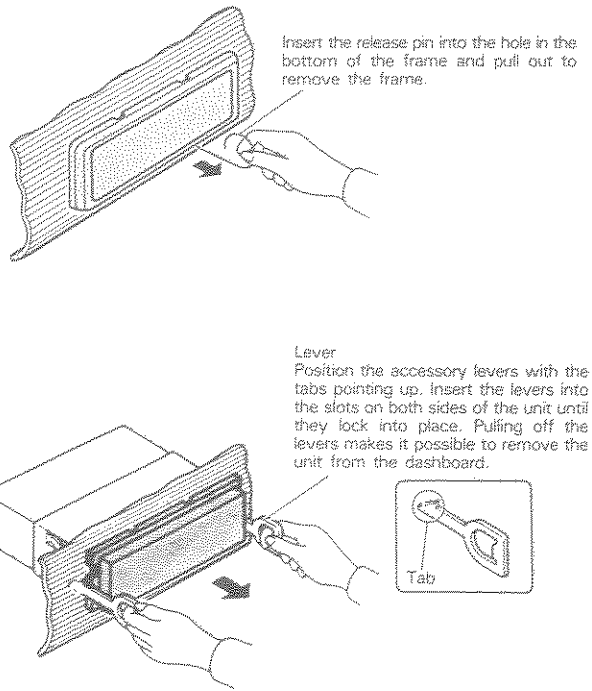

Dashboard
182
53
Holder
After inserting the holder into the dashboard, select the appropriate tabs according to the thickness of the dashboard material and bend them inwards to secure the holder in place.
Rubber bush
Screw
Frame

Fig. 1

Installation without the rubber bush (DIN Front-mount)


Dashboard
Nut (5 mm)
Drill a 5.5-6.0 mm diameter hole.
Strap
Be sure to use the strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.
Screw (5 × 16 mm)
Nut (5 mm)
Screw
Frame

Removing the unit (DIN Front-mount)


Insert the release pin into the hole in the bottom of the frame and pull out to remove the frame.
Lever
Position the accessory levers with the tabs pointing up. Insert the levers into the slots on both sides of the unit until they lock into place. Pulling off the levers makes it possible to remove the unit from the dashboard.
Tab

Installation using the screw holes on the sides of the unit (DIN Rear-mount)

1. **Remove the stopper.**
   Remove the screw (2.6 × 5 mm) and remove the stopper from both sides. (Fig. 1)
2. **Fastening the unit to the factory radio mounting bracket**
   For the screw holes marked Ⓐ in Fig. 2, use 4 × 8 mm screws.
   For the screw holes marked Ⓑ, use 5 × 8 mm screws. (Fig. 3)

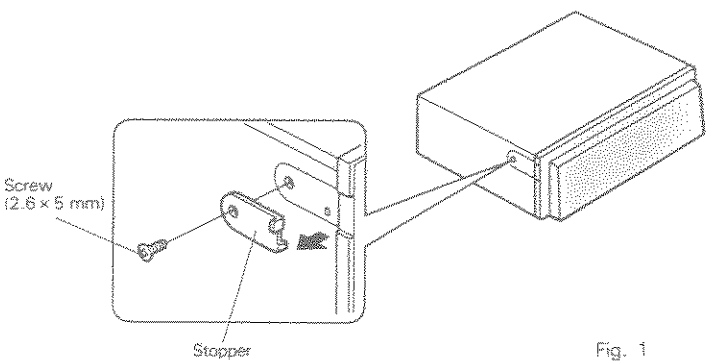


Fig. 1

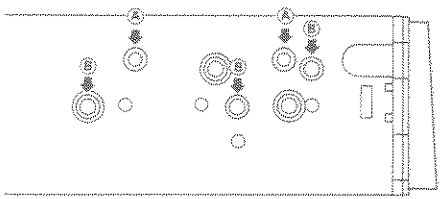


Fig. 2

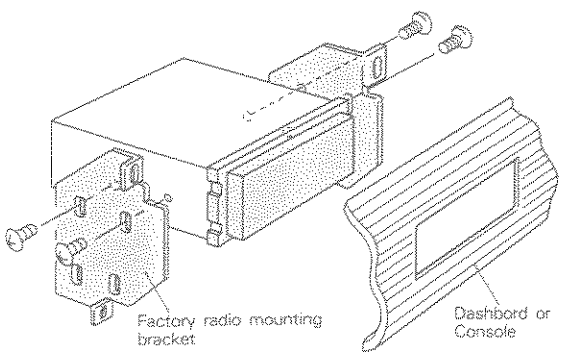


Fig. 3

Discs

- Only use compact discs (optical digital audio discs) bearing the mark shown below. (Fig. 1)
- Be sure never to touch the signal surface when handling discs. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge. (Fig. 2) (Fig. 3)
- Do not affix paper or tape, and avoid scratching the side of the disc which contains the label (contents of disc). (Fig. 4)
- The disc revolves at high speed within the player unit, so defective (cracked or badly bent) discs should not be used. (Fig. 5) (Fig. 6)
- Dust and/or finger smudges will have no direct effect on the signal recorded on the disc, but dirt can decrease the amount of light reflected from the recorded surface, thus affecting sound quality. If the disc should become soiled, gently wipe the surface with a soft lint-free cloth, wiping from the center of the disc to the edge. (Fig. 7)
- Do not use record sprays or antistatic agents. Such volatile chemicals as benzine and thinner can also damage the surface of the disc and should not be used. (Fig. 8)
- As with traditional audio records, compact discs are made of plastic. To avoid warping, keep the discs in their cases and do not store them in places exposed to direct sunlight. (Fig. 9)

Fig. 1

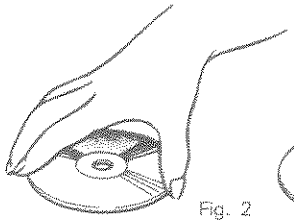


Fig. 2

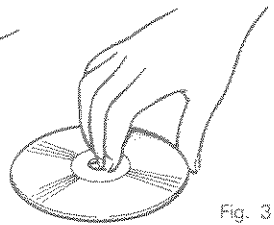


Fig. 3

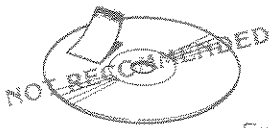


Fig. 4

Fig. 5

Fig. 6

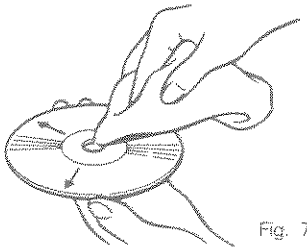


Fig. 7

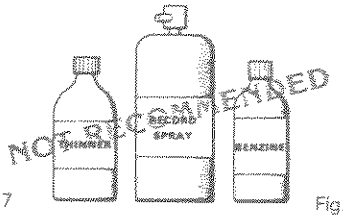


Fig. 8

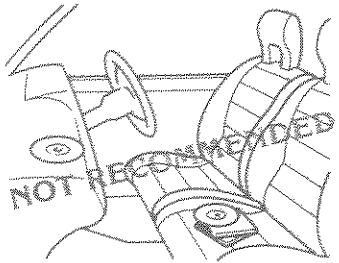


Fig. 9

Precautions

- To assure proper operation of the unit, keep the vehicle interior temperature within a normal range using the vehicle's air conditioner or heater.
- When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.
- To protect the semiconductor laser from damage, the CD player will automatically terminate disc play when its internal temperature rises past a standard level. When this occurs, *HHHH* will appear on the display to indicate that the standard level has been exceeded. Eject the disc from the unit using the eject button and wait until the temperature returns to normal.
- Do not leave an ejected disc in the insertion slot for extended periods since direct sunlight can cause warping. Always return discs to their cases and store in areas not exposed to direct sunlight.

Discs should not be left like this for extended periods.

- Do not leave an ejected 8-cm CD in the slot while driving. The vibration may make it drop out.
- When driving on an uneven road, the player may not reproduce every sound properly.
- Never remove the top case of the unit to attempt check or repairs. If operation of the unit is abnormal, contact your dealer or the nearest Pioneer Service Station.
- If the car's battery is disconnected for any reason, the preset memory will be erased and must be reprogrammed after reconnection of the battery.
- When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.

Condensation

- During winter the inside of the vehicle may be very cold. If the heater is turned on and the player is used soon after, the disc or optical parts (prism, lens, etc.) may become misted up. If the disc is misted up, wipe it with a soft cloth. If the optical parts are misted up, wait for about an hour for them to warm up. They will return to their normal condition.

In case of trouble
When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

Specifications

General

Power source . . . . . 14.4 V DC (10.8 – 15.6 V allowable)
Grounding system . . . . . Negative type
Max. current consumption . . . . . 6.5 A
Dimensions
(chassis) . . . . . 178(W) × 50(H) × 155(D) mm
(nose) (DEH-710) . . . . . 170(W) × 46(H) × 14(D) mm
(DEH-610) . . . . . 170(W) × 46(H) × 12(D) mm
Weight . . . . . 1.6 kg

Amplifier

Max. power output . . . . . 25 W + 25 W (EIAJ)
Continuous power output . . . . . 11 W × 2 (1 % dist. at 1 kHz)
Continuous power output is 10 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5 % THD.
Load impedance . . . . . 4 Ω (4 – 8 Ω allowable)
Max. output level/
output impedance (pre out) . . . . . 500 mV/1 kΩ
Tone controls (bass) . . . . . ± 10 dB (100 Hz)
(treble) . . . . . ± 10 dB (10 kHz)
Loudness contour . . . . . + 12 dB (100 Hz), + 7 dB (10 kHz)
(volume: – 30 dB)

CD player

System . . . . . Compact disc audio system
Usable discs . . . . . Compact disc
Signal format . . . . . Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear
Frequency characteristics . . . . . 5 – 20,000 Hz (± 1 dB)
Signal-to-noise ratio . . . . . 94 dB (1 kHz) (IEC-A network)
Dynamic range . . . . . 90 dB (1 kHz)
Number of channels . . . . . 2 (stereo)

FM tuner

Frequency range . . . . . 87.5 – 108 MHz
Usable sensitivity . . . . . 11 dBf (1.0 µV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity . . . . . 16 dBf (1.7 µV/75 Ω, mono)
Signal-to-noise ratio . . . . . 70 dB (IEC-A network)
Distortion . . . . . 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response . . . . . 30 – 15,000 Hz (± 3 dB)
Stereo separation . . . . . 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range . . . . . 531-1,602 kHz (9 kHz)
530-1,710 kHz (10 kHz)
Usable sensitivity . . . . . 18 µV (25 dB) (S/N: 20 dB)
Selectivity . . . . . 50 dB (± 9 kHz)
50 dB (± 10 kHz)

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

Specifications

General

Power source . . . . . 14.4 V DC (10.8 - 15.6 V allowable)
Grounding system . . . . . Negative type
Max. current consumption . . . . . 5.5 A
Dimensions
(chassis) . . . . . 178(W) × 50(H) × 155(D) mm
(nose) (DEH-710) . . . . . 170(W) × 46(H) × 14(D) mm
(DEH-610) . . . . . 170(W) × 46(H) × 12(D) mm
Weight . . . . . 1.6 kg

Amplifier

Max. power output . . . . . 25 W + 25 W (EIAJ)
Continuous power output . . . . . 11 W × 2 (1 % dist. at 1 kHz)
Continuous power output is 10 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5 % THD.
Load impedance . . . . . 4 Ω (4 - 8 Ω allowable)
Max. output level/
output impedance (pre out) . . . . . 500 mV/1 kΩ
Tone controls (bass) . . . . . ± 10 dB (100 Hz)
(treble) . . . . . ± 10 dB (10 kHz)
Loudness contour . . . . . + 12 dB (100 Hz), + 7 dB (10 kHz)
(volume: – 30 dB)

CD player

System . . . . . Compact disc audio system
Usable discs . . . . . Compact disc
Signal format . . . . . Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear
Frequency characteristics . . . . . 5 – 20,000 Hz (± 1 dB)
Signal-to-noise ratio . . . . . 94 dB (1 kHz) (IEC-A network)
Dynamic range . . . . . 90 dB (1 kHz)
Number of channels . . . . . 2 (stereo)

FM tuner

Frequency range . . . . . 87.5 - 108 MHz
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50 dB quieting sensitivity . . . . . 16 dBf (1.7 µV/75 Ω, mono)
Signal-to-noise ratio . . . . . 70 dB (IEC-A network)
Distortion . . . . . 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response . . . . . 30 - 15,000 Hz (± 3 dB)
Stereo separation . . . . . 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range . . . . . 531-1,602 kHz (9 kHz)
530-1,710 kHz (10 kHz)
Usable sensitivity . . . . . 18 µV (25 dB) (S/N: 20 dB)
Selectivity . . . . . 50 dB (± 9 kHz)
50 dB (± 10 kHz)

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

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